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EU 934722537 US

PTO/SB/21 (08-03) Approved for use through 08/30/2003. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Inder the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Application Number 10/634,020 TRANSMITTAL Filing Date 08/04/2003 **FORM** First Named Inventor Lu et al. Art Unit 3742 (to be used for all correspondence after initial filing) **Examiner Name** Attorney Docket Number 12004 Total Number of Pages in This Submission

	ENCLOSURES (Check all that apply)							
	Fee Transmittal Form Fee Attached Amendment/Reply After Final Affidavits/declaration(s) Extension of Time Request Express Abandonment Request Information Disclosure Statement Certified Copy of Priority Document(s) Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53	Drawing(s) Licensing-related Papers Petition Petition to Convert to a Provisional Application Change of Correspondence Address Terminal Disclaimer Request for Refund CD, Number of CD(s) After Allowance communication to Technology Center (TC) Appeal Communication to Board of Appeals and Interferences Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) Proprietary Information Proprietary Information Status Letter Other Enclosure(s) (please Identify below): PTO/SB/08A and 08B Return Receipt Post Card						
	SIGNA	TURE OF APPLICANT, ATTORNEY, OR AGENT						
Firm or Individ Signat	William B. Richards, Reg, dual name dure 01/08/2004	#44,301 Lwd						
	CERTIFICATE OF TRANSMISSION/MAILING							

CERTIFICATE OF TRANSMISSION/MAILING

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Typed or printed name	Judy Readman				-
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This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentially is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group:

3742

Attorney Docket:

12004

Applicant:

Lu et al.

Title:

Resistance Spot Welding Electrode

Serial No.:

10/634,020

Filed:

08/04/2003

Examiner:

Certificate Under 37 CFR § 1.10

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on //

Judy Readmen

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Submitted herewith are patents, publications, or other information, which may be material, as defined in 37 CFR § 1.56(b), to the examination of this application, and in respect of which, there may be a duty to disclose in accordance with 37CFR § 1.56(a). Also submitted herewith are forms PTO/SB/08A and 08B on which are listed all cited items of information.

The following references are enclosed:

US Patent Documents:

1,176,614

03/21/1916

A. M. Stanley

1,982,098

11/27/1934

A. M. Hartmann

3,592,994	07/13/1971	L. A. Ford
3,689,731	09/05/1972	W. K. Miller
3,930,139	12/30/1975	Bykhovsky et al.
3,976,853	08/24/1976	Trattner et al.
4,304,984	12/08/1981	Bolotnikov et al.
4,339,653	07/13/1982	Doyle et al.
4,34,3983	08/10/1982	Schneider et al.
4,514,612	04/30/1985	H. A. Neid
4,766,349	08/23/1988	Johansson et al.
5,066,845	11/19/1991	S. L. Anderson
5,105,061	04/14/1992	G. D. Blankenship
5,200,594	04/06/1993	Okada et al.
5,310,988	05/10/1994	Couch et al.
5,601,734	02/11/1997	Luo et al.
5,611,945	03/18/1997	Kuwabara et al.
5,676,864	10/14/1997	J. K. Walters
5,844,194	12/01/1998	Kuwanara et al.
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6,191,381	02/20/2001	A. Kabir
6,225,591	05/01/2001	Nippert et al.
6,420,673	07/16/2002	V. Nemchinsky

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6,452,130	09/17/2002	Qian et al.
6,483,070	11/19/2002	Diehl et al.

Other Art – Non-Patent Literature Documents

Evaluating Electrodes; Practical Welding Electrodes; J. A> Schroeder et al.; January 10, 2002; www.thefabricator.com/xp/FAbricator/Articles/Welding/We102/02web318.xml

Transient Thermal Analysis of Spot Welding Electrodes; Welding Research; Supplemental to the Welding Journal January, 1999; K. S. Yeung et al.; pp. 1s-6s

The Examiner is respectfully requested to initial the space adjacent to each document entry on FormsPTO/SB/08A and 08B and to return a copy of the initialed form to the undersigned to confirm that the documents have been considered and have been officially made of record.

While the information referred to in this Information Disclosure Statement may be material pursuant to 37 CFR §1.56(b), the filing of this Information Disclosure Statement is not intended, pursuant to 37 CFR §1.97(h), to constitute an admission that any patent, publication, or other information referred to is, or is considered to be, material to the patentability of this invention. Further, pursuant to 37 CFR §1.97(g), the filing of this Information Disclosure Statement should not be construed as a representation that a search has been made. Finally, the filing of this Information Disclosure Statement shall not be construed as a representation that no other material information exists and shall not be construed as an admission against interest in any manner.

Pursuant to 37 CFR § 1.97(b)(3), this Information Disclosure Statement is being filed before the mailing date of a First Office Action on the merits. Applicants believe no fees are due and payable in connection with this submission.

If the Examiner has any questions or wishes to discuss this Application, the Examiner is invited to telephone the undersigned representative at the number set forth below.

Respectfully submitted,

William B. Richards, Esq. Attorney for Applicants

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Sheet 1

Substitute for form 1449/PTO

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known				
Application Number	10/634,020			
Filing Date	08/04/2003			
First Named Inventor	Lu et al.			
Art Unit	3742			
Examiner Name				
Attorney Docket Number	12004			

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2 (f known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevan Figures Appear
		US- 1,176,614	03-21-1916	Stanley	
		^{US-} 1,982,098	11-27-1934	Hartmann	
		^{US-} 3,592,994	07-13-1971	Ford	
		^{US-} 3,689,731	09-05-1972	Miller	
		^{US-} 3,930,139	12-30-1975	Bykhovsky et al.	
		^{US-} 3,976,853	08-24-1976	Trattner et al.	
		^{US-} 4,304,984	12-08-1981	Bolotnikov et al.	
		^{US-} 4,339,653	07-13-1982	Doyle et al.	
		^{US-} 4,343,983	08-10-1982	Schneider et al.	
		^{US-} 4,514,612	04-30-1985	Nied	
		^{US-} 4,766,349	08-23-1988	Johansson et al.	
.,		^{US-} 5,066,845	11-19-1991	Anderson	
		^{US-} 5,105,061	04-14-1992	Blankenship	
		us- 5,200,594	04-06-1993	Okada et al.	
		us- 5,310,988	05-10-1994	Couch Jr., et al.	
		US- 5,601,734	02-11-1997	Luo et al.	
		^{US-} 5,611,945	03-18-1997	Kuwabara et al.	
		^{US-} 5,676,864	10-14-1997	Walters	
		^{US-} 5,844,194	12-01-1998	Kuwabara et al.	

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages		
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Examiner	Date	
Signature	Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Sheet 2

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known					
Application Number	10/634,020				
Filing Date	08/04/2003				
First Named Inventor	Lu et al.				
Art Unit	3742				
Examiner Name					
Attorney Docket Number	12004				

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ² (f known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		^{US-} 6,114,650	09-05-2000	Marner et al.	
		^{US-} 6,130,399	10-10-2000	Lu et al.	
		^{US-} 6,177,647 B1	01-23-2001	Zapletal	
		^{US-} 6,191,381 B1	02-20-2001	Kabir	
		^{US-} 6,225,591 B1	05-01-2001	Nippert et al.	
		^{US-} 6,420,673 B1	07-16-2002	Nemchinsky	
		^{US-} 6,423,922 B1	07-23-2002	Nemchinsky	
		^{US-} 6,452,130 B1	09-17-2002	Qian et al.	
		^{US-} 6,483,070 B1	11-19-2002	Diehl et al.	
		US-			

		FORE	IGN PATENT DOCU	MENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	Γ
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Examiner	Date	
Signature	Considered	1
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08-04-2003

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE duction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Kn wn Applicati n Numb r 10/634,020

INFORMATION DISCLOSURE STATEMENT BY APPLICANT First Named Inventor

•				_	Lu et al.
	(Use as many sheets as necessary)			Art Unit	3742
				Examiner Name	
Sheet	3	of	3	Attorney Docket Number	12004

Filing Dat

NON PATENT LITERATURE DOCUMENTS								
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²					
	C1	J.A. SCHROEDER et al.; Evaluating Electrodes - Sample Test of Copper Electrodes During Resistance Welding of Aluminum; Practical Welding Today; 01/10/02; www.thefabricator.com						
	C2	K.S. YEUNG et al.; Transient Thermal Analysis of Spot Wedling Electrodes; Welding Research; Supplement to Welding Journal, January, 1999; pp 1s-6s						

Examiner	Date	
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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